

Title (en)

BELT-TYPE CONTINUOUSLY VARIABLE TRANSMISSION AND METHOD FOR OPERATING THE SAME

Title (de)

STUFENLOSES RIEMENGETRIEBE UND VERFAHREN ZUM BETRIEB DESSELBEN

Title (fr)

TRANSMISSION A VARIATION CONTINUE DE TYPE A COURROIE ET SON PROCEDE D' UTILISATION

Publication

EP 1930623 A1 20080611 (EN)

Application

EP 06810872 A 20060929

Priority

- JP 2006319474 W 20060929
- JP 2005018115 W 20050930

Abstract (en)

A belt type non-stage transmission is constituted so that a V belt obtained by connecting a plurality of elements using a belt is wound around a pair of pulleys which have a groove with V-shaped cross section and which groove width can be changed. A diffusion layer where at least one of Zn and Sn diffuses on a surface layer of a metallic material of the pulleys and the elements is provided to at least one of contacting surfaces between the pulleys and the elements. The diffusion layer contains S and P. As a result, high frictional coefficient and wear resistance can be maintained for a long time, so that the device can cope with heightening of output.

IPC 8 full level

F16G 5/16 (2006.01); **F16H 55/38** (2006.01)

CPC (source: EP US)

F16G 5/16 (2013.01 - EP US); **F16H 55/38** (2013.01 - EP US)

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

EP 1930623 A1 20080611; **EP 1930623 A4 20081008**; **EP 1930623 B1 20100217**; CN 101273214 A 20080924; CN 101273214 B 20100818; DE 602006012344 D1 20100401; US 2009181814 A1 20090716; US 7951032 B2 20110531; WO 2007037371 A1 20070405; WO 2007043104 A1 20070419

DOCDB simple family (application)

EP 06810872 A 20060929; CN 200680035861 A 20060929; DE 602006012344 T 20060929; JP 2005018115 W 20050930; JP 2006319474 W 20060929; US 6680106 A 20060929